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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing

(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference see form PCT/ISA/220

FOR FURTHER ACTION See paragraph 2 below

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

PCT/GB2004/003534 16.08.2004

15.08.2003

International Patent Classification (IPC) or both national classification and IPC E04C3/29, E04C3/14, E04B1/76

Applicant

THE COURT OF NAPIER UNIVERSITY

1. This opinion contains indications relating to the following items:

Box No. 1

Basis of the opinion

Box No. II

Priority

☐ Box No. III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Box No. IV

Lack of unity of invention

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial

applicability; citations and explanations supporting such statement

☐ Box No. VI

Certain documents cited

☐ Box No. VII

Certain defects in the international application Box No. VIII Certain observations on the international application

FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

Authorized Officer



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Vratsanou, V

Telephone No. +49 89 2399-7142



MURGITROYD

International application No.

PCT/GB2004/003534

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

-	R	lov i	No. I Basis of the opinion		
-					
1	 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item. 				
			his opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).		
2	. W	ith r	egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:		
	a.	type	e of material:		
			a sequence listing		
			table(s) related to the sequence listing		
	b.	form	nat of material:		
			in written format		
			in computer readable form		
	c. time of filing/furnishing:				
			contained in the international application as filed.		
			filed together with the International application in computer readable form.		
			furnished subsequently to this Authority for the purposes of search.		
3.		CO	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional poles is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.		
4.	Additional comments:				

.... → Fax Center

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/003534

_	Во	x No. II	Priority
1.	Ø	The fol	lowing document has not been fumished:
		. ⊠	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
		Consect neverth	quently it has not been possible to consider the validity of the priority claim. This opinion has neless been established on the assumption that the relevant date is the claimed priority date.
2.		nas Det	ninion has been established as if no priority had been claimed due to the fact that the priority claim on found invalid (Rules 43 <i>bis.</i> 1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.
3.	Add		bservations, if necessary:

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

No:

Yes: Claims

14-17, 19

Claims No:

1-13, 18, 20-30

Inventive step (IS)

Yes: Claims

Claims

14-17, 19

Industrial applicability (IA)

Yes: Claims

1-30

No: Claims

2. Citations and explanations

see separate sheet

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2004/003534

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 Reference is made to the following documents, cited in the International Search Report:
 - D1: EP-A-0 062 139 (UNIV MICHIGAN TECH) 13 October 1982 (1982-10-13)
 - D2: WO 91/02865 A (LARSSON BJOERN) 7 March 1991 (1991-03-07)
 - D3: US-A-5 966 894 (CRUMP JR PRESTON L) 19 October 1999 (1999-10-19)
 - D4: DE 297 15 705 U (HINTERMAYR STEFAN) 4 December 1997 (1997-12-04)
 - D5: FR-A-2 770 865 (BROUILLARD LAURENT) 14 May 1999 (1999-05-14)
 - D6: GB 825 399 A (ERIC SIGFRID PERSSON) 16 December 1959 (1959-12-16)
 - D7: US-A-5 865 929 (SING PETER) 2 February 1999 (1999-02-02)
 - D8: FR-A-2 747 708 (MALVY MARTIAL) 24 October 1997 (1997-10-24)
 - D9: FR-A-2 554 482 (BLANVILLAIN FILS ETS) 10 May 1985 (1985-05-10)
 - D10: US-A-5 653 080 (BERGERON RONALD) 5 August 1997 (1997-08-05)
 - D11: US-A-5 625 996 (BECHTEL FRIEND K) 6 May 1997 (1997-05-06)
 - D12: GB-A-1 334 794 (COBETON AG) 24 October 1973 (1973-10-24)
- 2 The present application does not meet the criteria of Article 33(1) PCT, because
 - the subject-matter of claims 1-13, 18, 20-30 is not new (Article 33(2) PCT) and
 - the subject-matter of claims 14-17, 19 does not involve an inventive step (Article 33(3) PCT),

the reasons being as follows:

2.1 D1 is regarded as being the closest prior art.

Claims 1-24

- 2.2 D1 discloses (fig. 5; page 8, paragraph 3 page 9, last paragraph):
 - a) a structural support beam 40 for use in building and construction (page 1, paragraph 1)
 - b) comprising a support frame defining at least one volume 46,
 - c) said support frame being of a first material ("... composite wood material ...") and
 - d) said at least one volume 46 being in-filled with a second material 48 ("... polyurethane foam ...").

Hence, the subject-matter of the independent claim 1 is not new.

2.3 Each of the documents D2-D9 also discloses the features of claim 1.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2004/003534

- 2.4 The additional features of the dependent claims 2-13, 18, 20-24 are also known from the documents D1-D9, see the corresponding passages cited in the international search report. Hence, the subject-matter of these claims is also <u>not new</u>.
- 2.5 Inasmuch as the additional features of the dependent claims 14-17, 19 are not directly known from the documents D10-D12 (see the corresponding passages cited in the international search report), they concern only minor modifications which lie within the normal practice of the person skilled in the art, especially as the advantages thus achieved can readily be foreseen. Consequently, the subject-matter of these claims lacks an inventive step.

Claims 25-27

- 2.6 D1 discloses (fig. 5; page 8, paragraph 3 page 9, last paragraph):
 - a) a structural support beam 40 for use in building and construction (page 1, paragraph 1)
 - b) comprising a timber based support frame ("... composite wood material ...") formed from two spaced apart rectangular flanges 42 connected by at least two outer support webs
 - c) wherein the timber based support frame defines at least one volume 46 in-filled with a plastics foam 48 ("... polyurethane foam ...");
 - and wherein the plastics foam material 48 is bonded to the flange and the webs ("...
 forming an adhesive bond with the internal surfaces 50 of the panels ...").

Hence, the subject-matter of the independent claim 25 is not new.

- 2.7 Each of the documents D2, D5 also discloses the features of claim 25.
- 2.8 The additional features of the dependent claims 26-27 are also known from D1, D2 or D5, see the corresponding passages cited in the international search report. Hence, the subject-matter of these claims is also <u>not new</u>.

Claims 28-30

- 2.9 D1 discloses (fig. 5; page 8, paragraph 3 page 9, last paragraph)
 - a) a method of manufacturing the structural support beam 40 claim 1,
 - b) said method comprising the steps of:
 - b1) connecting two spaced apart flanges 42 by means of at least two outer support webs 42 to form a support frame defining at least one volume 46 (page 9, paragraph 2; also page 6 7); and
 - b2) filling said at least one volume 46 with an infill of material 48.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

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Hence, the subject-matter of the independent claim 28 is not new.

- 2.10 Each of the documents D2, D5 also discloses the features of clalm 28.
- 2.11 The additional features of the dependent claims 29-30 are also known from D1, D2 or D5, see the corresponding passages cited in the international search report. Hence, the subject-matter of these claims is also <u>not new</u>.
- 3 The subject-matter of claims 1-30 is industrially applicable (Article 33(4) PCT).
- 4 Upon continuation of the procedure, the applicant is invited to consider the following points:
- 4.1 To meet the requirements of Rule 6.3(b) PCT, the Independent claims should be properly cast in the two part form, with those features which in combination are part of the corresponding closest prior art being placed in the preamble.
- 4.2 <u>Reference signs</u> in parentheses should be inserted in the claims to increase their intelligibility; this applies to both the preamble and characterising portion (Rule 6.2(b) PCT).
- 4.3 The <u>description</u> must be brought into conformity with the new claims to be filed (Rule 5.1(a)(iii) PCT); care should be taken during revision, especially of the introductory portion including any statements of problem or advantage, not to add subject-matter which extends beyond the content of the application as originally filed (Article 34(2) PCT).
- 4.4 To meet the requirements of Rule 5.1(a)(ii) PCT, <u>documents D1-D9</u> should be Identified in the description and the relevant background art disclosed therein should be briefly discussed.
- In order to expedite the procedure and to facilitate the examination of the conformity of the amended application with the requirements of Article 34(2) PCT, the applicant is requested to clearly identify all <u>amendments</u> carried out, irrespective of whether they concern amendments by addition, replacement or deletion, and to Indicate the passages of the application as filed on which each of these amendments are based (Rule 66.8 (b) PCT).

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER					
P34813A/AHO/SMI		see Form PCT/ISA/220 as, where applicable, item 5 below.				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/GB2004/003534	16/08/2004	15/08/2003				
Applicant						
THE COURT OF NAPIER UNIVER	SITY					
This International Search Report has been according to Article 18. A copy is being tra	r prepared by this international Searching Auth	ority and is transmitted to the applicant				
This International Search Report consists		·				
	a copy of each prior art document cited in this r	report.				
Basis of the report a. With regard to the language, the li language in which it was filed, unle	nternational search was carried out on the basi ass otherwise indicated under this item.	is of the International application in the				
	earch was carried out on the basis of a translat	tion of the international application furnished to				
b. With regard to any nucleon	tide and/or amino acid sequence disclosed in	n the International application, see Box No. I.				
2. Certain claims were found	d unsearchable (See Box II).					
3. Unity of invention is lacki	ng (see Box III).					
4. With regard to the title,						
X the text is approved as sub-						
the text has been established	the text has been established by this Authority to read as follows:					
	·					
		·				
		·]				
5. With regard to the abstract.						
X the text is approved as subm	plitted by the applicant					
the text has been established	d. according to Rule 38 2/h), by this Authority	20 It opposed to Double, IV. The section				
may, within one month from	the date of mailing of this international search	report, submit comments to this Authority.				
6. With regards to the drawings,						
a. the figure of the drawings to be published with the abstract is Figure No25A						
as suggested by the						
	uthority, because the applicant falled to sugges	st a floure.				
	uthority, because this figure better characterize					
b. none of the figures is to be pu	ıblished with the abstract.					
m PCT/ISA/210 (first shoot) / have a cont						

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International Application No PCT/GB2004/003534

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 E04C3/29 E04C3/14 E04B1/76

According to international Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 E04C E04B

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

Category •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 91/02865 A (LARSSON BJOERN) 7 March 1991 (1991-03-07) the whole document	1-3,6,8, 9,20-25, 27-30
x	EP 0 062 139 A (UNIV MICHIGAN TECH) 13 October 1982 (1982-10-13) the whole document	1-3,9, 10,20-30
х	US 5 966 894 A (CRUMP JR PRESTON L) 19 October 1999 (1999-10-19)	1,2,6,8, 9,20-24
A	the whole document	25,27, 28,30
K]	DE 297 15 705 U (HINTERMAYR STEFAN) 4 December 1997 (1997-12-04)	1-3,6, 8-10,20,
١	the whole document	22-24 28-30

A difficult documents are listed in the continuation of box C.	Patent family members are listed in annex.		
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novol or cannot be considered to involve an inventive step when the document is taken alone		
"O" document referring to an oral disclosure, use, exhibition or other means "P" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family 		
Date of the actual completion of the International search 22 November 2004	Date of mailing of the international search report 30/11/2004		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Vratsanou, V		

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International Application No PCT/GB2004/003534

FR 2 770 865 A (BROUILLARD LAURENT) 14 May 1999 (1999-05-14) 1-3 8-14 14 May 1999 (1999-05-14) 15 He whole document 22-3 25 He whole document 26 US 5 865 996 A (BEGERID PERSSON) 27 He whole document 28 He whole document 29 He whole document 20 He whole document 21 He whole document 22 February 1999 (1999-02-02) 23 He whole document 24 October 1997 (1997-10-24) 25 Page 5, line 4 - page 11, line 15; figures 1,2,8 27 FR 2 554 482 A (BLANVILLAIN FILS ETS) 28 Pages 4-6; figures 2,3 29 US 5 653 080 A (BERGERON RONALD) 5 August 1997 (1997-08-05) 20 column 3, line 29 - column 4, line 63; figures 1a,1b,2d US 5 625 996 A (BECHTEL FRIEND K) 6 May 1997 (1997-05-06) figures 1-4	ategory °	etion) DOCUMENTS CONSIDERED TO BE RELEVANT	
14 May 1999 (1999-05-14) the whole document GB 825 399 A (ERIC SIGFRID PERSSON) 16 December 1959 (1959-12-16) the whole document US 5 865 929 A (SING PETER) 2 February 1999 (1999-02-02) the whole document FR 2 747 708 A (MALVY MARTIAL) 24 October 1997 (1997-10-24) page 5, line 4 - page 11, line 15; figures 1,2,8 FR 2 554 482 A (BLANVILLAIN FILS ETS) 10 May 1985 (1985-05-10) Page 3, lines 3-8 pages 4-6; figures 2,3 US 5 653 080 A (BERGERON RONALD) 5 August 1997 (1997-08-05) column 3, line 29 - column 4, line 63; figures 1a,lb,2d US 5 625 996 A (BECHTEL FRIEND K) 6 May 1997 (1997-05-06) figures 1-4 GB 1 334 794 A (COBETON AG) 24 October 1973 (1973-10-24)	alegory *	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
GB 825 399 A (ERIC SIGFRID PERSSON) 16 December 1959 (1959-12-16) the whole document US 5 865 929 A (SING PETER) 2 February 1999 (1999-02-02) the whole document FR 2 747 708 A (MALVY MARTIAL) 24 October 1997 (1997-10-24) page 5, line 4 - page 11, line 15; figures 1,2,8 FR 2 554 482 A (BLANVILLAIN FILS ETS) 10 May 1985 (1985-05-10) US 5 653 080 A (BERGERON RONALD) 5 August 1997 (1997-08-05) column 3, line 29 - column 4, line 63; figures 1a,1b,2d US 5 625 996 A (BECHTEL FRIEND K) 6 May 1997 (1997-05-06) figures 1-4 GB 1 334 794 A (COBETON AG) 24 October 1973 (1973-10-24)		14 May 1999 (1999-05-14)	1-3,6, 8-10,20, 22-30
US 5 865 929 A (SING PETER) 2 February 1999 (1999-02-02) the whole document FR 2 747 708 A (MALVY MARTIAL) 24 October 1997 (1997-10-24) page 5, line 4 - page 11, line 15; figures 1,2,8 FR 2 554 482 A (BLANVILLAIN FILS ETS) 10 May 1985 (1985-05-10) page 3, lines 3-8 pages 4-6; figures 2,3 US 5 653 080 A (BERGERON RONALD) 5 August 1997 (1997-08-05) column 3, line 29 - column 4, line 63; figures 1a,1b,2d US 5 625 996 A (BECHTEL FRIEND K) 6 May 1997 (1997-05-06) figures 1-4 GB 1 334 794 A (COBETON AG) 24 October 1973 (1973-10-24)		GB 825 399 A (ERIC SIGFRID PERSSON) 16 December 1959 (1959-12-16)	1,2,4,5, 9,20,22, 24
2 February 1999 (1999-02-02) the whole document 20,2 25,2 28,3 FR 2 747 708 A (MALVY MARTIAL) 24 October 1997 (1997-10-24) page 5, line 4 - page 11, line 15; figures 1,2,8 FR 2 554 482 A (BLANVILLAIN FILS ETS) 10 May 1985 (1985-05-10) 1-3, 10 May 1985 (1985-05-10) 1-3, 11 18-2 page 3, lines 3-8 pages 4-6; figures 2,3 US 5 653 080 A (BERGERON RONALD) 5 August 1997 (1997-08-05) column 3, line 29 - column 4, line 63; figures 1a,1b,2d US 5 625 996 A (BECHTEL FRIEND K) 6 May 1997 (1997-05-06) figures 1-4 GB 1 334 794 A (COBETON AG) 24 October 1973 (1973-10-24)	ŀ		
24 October 1997 (1997-10-24) page 5, line 4 - page 11, line 15; figures 1,2,8 FR 2 554 482 A (BLANVILLAIN FILS ETS) 10 May 1985 (1985-05-10) 1-3, 10 May 1985 (1985-05-10) 1-3, 10 May 1985 (1985-05-10) 1-3, 11 18-2 22,2 14 US 5 653 080 A (BERGERON RONALD) 5 August 1997 (1997-08-05) column 3, line 29 - column 4, line 63; figures 1a,1b,2d US 5 625 996 A (BECHTEL FRIEND K) 6 May 1997 (1997-05-06) figures 1-4 GB 1 334 794 A (COBETON AG) 24 October 1973 (1973-10-24)		2 February 1999 (1999-02-02)	1,2,5,9, 20,22-24 25,27, 28,30
10 May 1985 (1985-05-10) page 3, lines 3-8 pages 4-6; figures 2,3 US 5 653 080 A (BERGERON RONALD) 5 August 1997 (1997-08-05) column 3, line 29 - column 4, line 63; figures 1a,1b,2d US 5 625 996 A (BECHTEL FRIEND K) 6 May 1997 (1997-05-06) figures 1-4 GB 1 334 794 A (COBETON AG) 24 October 1973 (1973-10-24)		24 October 1997 (1997-10-24) page 5, line 4 - page 11, line 15: figures	1,2,4-9, 20-24 25-30
page 3, lines 3-8 pages 4-6; figures 2,3 US 5 653 080 A (BERGERON RONALD) 5 August 1997 (1997-08-05) column 3, line 29 - column 4, line 63; figures 1a,1b,2d US 5 625 996 A (BECHTEL FRIEND K) 6 May 1997 (1997-05-06) figures 1-4 GB 1 334 794 A (COBETON AG) 24 October 1973 (1973-10-24)		FR 2 554 482 A (BLANVILLAIN FILS ETS) 10 May 1985 (1985-05-10)	1-3,6,8, 9,11-13, 18-20,
5 August 1997 (1997-08-05) column 3, line 29 ~ column 4, line 63; figures 1a,1b,2d US 5 625 996 A (BECHTEL FRIEND K) 6 May 1997 (1997-05-06) figures 1-4 GB 1 334 794 A (COBETON AG) 24 October 1973 (1973-10-24)		page 3, lines 3-8 pages 4-6; figures 2,3	22,24 14
6 May 1997 (1997-05-06) figures 1-4 GB 1 334 794 A (COBETON AG) 24 October 1973 (1973-10-24) 15,17		5 August 1997 (1997-08-05) column 3, line 29 - column 4, line 63;	14
24 October 1973 (1973-10-24)		6 May 1997 (1997-05-06)	15-17
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Form PCT/ISA/210 (continuation of second sheet) (January 2004)

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information on patent family members

International Application No PCT/GB2004/003534

				T	I CI/ GDZ	004/003534
	atent document d in search report		Publication date		Patent family member(s)	Publication date
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